



CONERGY

# Solar Hot Water - Naturally the smarter choice



# Conergy solar hot water systems: The smarter choice, whatever the weather.

The benefits of solar heating are well known – energy from the sun costs nothing, meaning you can obtain as much as 90% of your hot water requirements for free! And while you're reducing your power bill, you're helping the environment.

As one of the world's leading renewable energy system manufacturers, Conergy offers state of the art technology and world class design. Our systems are built to withstand the harshest conditions and represent new levels of efficiency, cost saving and reliable hot water, all year round.

The highest quality materials and compliance with rigorous international standards, including AS/NZS 2712, assure exceptional performance and a longer operating life than a conventional electric hot water system.

By choosing a Conergy solar water heater, you are not only slashing your energy bills, but helping the environment as well.

With all these benefits, Conergy hot water systems really are the smarter choice in heating your water - naturally.

## Conergy TS Series

Simple and innovative design are the key to our TS series product. Our world leading systems offer a breakthrough in thermosiphon water heating via a complete and compact close coupled on-roof unit with no moving parts.

In the open circuit model, water is circulated through the system using the principle of convection, whereby hot water rises up through the collectors into the tank and is replaced by cold water in a continuous cycle. The closed circuit system is designed for frost-prone and poor water quality areas. In this system, a special solar transfer fluid circulates through the system which transfers the heat to the water via a heat exchange system.



**5 year warranty**  
on tanks & collectors

## Conergy AS Series

Active Systems (AS) - also known as Split Systems - are usually installed when visual impact is to be kept to a minimum or the roof structure is not able to hold a tank. Our AS system is a high efficiency solar water heater with roof mounted collectors and a ground standing storage tank.

In the open circuit system, water is circulated between tank and collectors by a small pump which is regulated by our world leading Smart Controller. This measures the temperature difference between the water temperature in the collectors and the tank and optimises the solar energy collected. In the closed circuit system, special solar transfer fluid is circulated through the system. The heat is transferred to the water via a heat exchange module.



**5 year warranty**  
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For more information, visit us  
online at [www.conergy.com.au](http://www.conergy.com.au)

## Quality in design and manufacture:

Our durable systems are Australian designed to last and deliver piping hot water, all year round.

### TS Tanks (Roof mounted)

Our vitreous enamel TS tanks are available in 180 and 300 litre models and deliver the highest levels of efficiency. The durable Colorbond® and polypropylene casing is built to withstand the elements and deliver high efficiency. Conergy TS tanks have proven themselves thousands of times over in the most varying climatic conditions, from desert heat to icy cold weather.

The **TS Plus** stainless steel tank is Conergy's premium TS tank model and is available in a 300 litre size, complete with a thermosiphon arrestor valve and tempering valve as standard.

All tanks come with electric boosting as standard, but an instantaneous gas boosting option is available. Freeze protected closed circuit models are available for frost-prone and poor water quality areas.

### AS Tanks (Split System)

Our vertical tanks are built rugged to the highest specifications to ensure a long service life. AS tank systems are available in 250, 315 and 400 litre models, depending on your hot water requirements.

The tank's industry leading, innovative Smart Controller ensures that temperature levels between the water in the collectors and the tank are constantly optimised, meaning you will always have hot water available when you need it.

The Conergy AS tank comes with an electric booster element as standard. This ensures that even during extended periods of cooler weather, you will always enjoy piping hot water from your system. A gas boosting option is also available, in which case the electric element is not required.

Freeze protected closed circuit models are also available for frost-prone and poor water quality areas.



For more information

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### Flat plate collectors

Conergy systems come with a range of solar flat plate collector options to suit the widest range of applications and climatic conditions. Whether you live in a high or low solar radiation area, or require panels specifically suited to coastal conditions, we have the right panel for the job.

Our range includes the following collector models:

- | **E20BC** - black chrome absorber surface with aluminium tray for extra high efficiency in low and medium solar radiation areas
- | **E25BC** - black chrome absorber surface with aluminium tray for extra high efficiency in low and medium solar radiation areas. 25% additional absorber surface area for even higher performance.
- | **E20AA** - semi selective absorber surface with aluminium tray for higher solar radiation areas in coastal/salted regions

Your Conergy partner will be happy to advise you on which panel type best suits your needs and local conditions, ensuring you get the best performance possible out of your Conergy system.



## Rebates and incentives:

Independently rated with superior efficiency - good for your pocket and good for the planet.

Considerable rebates are available for installing a Conergy solar water heater. These come in the form of Government, as well as Small Technology Certificate (also known as STC) rebates.

If you are not eligible for State Government Rebates, you will still be eligible for the considerable STC rebates scored by your Conergy solar hot water system. The STC value of a solar hot water system is determined by the Federal Government's Clean Energy Regulator and is an independent efficiency rating system. Conergy systems score some of the highest STC values compared to competitor models, so switching to Conergy is the right choice for you and the environment!

The table below shows some of the typical STC values scored by our systems in the various STC rating zones. Your Conergy dealer will be happy to advise you on the most effective Conergy system suited for your zone.



**The Conergy Difference** - some typical examples of Conergy's high efficiency systems and associated STC values.  
Current as at 1st November 2011

Model	Household	STC Zone 1	STC Zone 2	STC Zone 3	STC Zone 4
TS 180 gas boost, open, 1 x E25 BC collector	1-2 person	16	18	17	15
TS 180 electric boost, open, 1 x E25 BC collector	1-2 person	18	19	18	16
TS 300 Plus electric boost, open, 2 x E25 BC collector	2-4 person	41	44	40	35
TS 300 gas boost, open/closed, 3 x E20 BC collector	4-6 person	39	42	38	32
TS 300 electric boost, open, 3 x E20 BC collector	2-4 person	40	43	39	33
AS 400 gas boost, open, 3 x E20 AA collector	4+ person	37	41	38	31
AS 400 electric boost, open, 3 x E20 BC collector	4+ person	41	43	41	36

## Technical information

Conergy Flat Plate Collectors			
	E20 BC	E25 BC	E20 AA
Collector dimensions (h x w x l /mm)	2,000 x 1,000 x 80	2,000 x 1,235 x 80	2,000 x 1,000 x 80
Collector area (m <sup>2</sup> )	2.00	2.47	2.00
Aperture area (m <sup>2</sup> )	1.84	2.29	1.84
Collector weight, empty / full (kg)	29.5 / 31.2	36.0 / 38.0	29.5 / 31.2
Collector case material	Aluminium	Aluminium	Aluminium

Conergy TS Tanks					
	TS 180 litre (open circuit)	TS 180 litre (closed circuit)	TS 300 litre (open circuit)	TS 300 litre (closed circuit)	TS Plus 300 litre (open circuit only)
Storage capacity (L)	175	175	297	297	297
Tank weight, empty / full (kg)	54 / 229	69 / 244	87 / 384	108 / 405	71 / 368
Tank dimensions (w x h x l /mm)	650 x 600 x 1,350	650 x 600 x 1,350	650 x 600 x 2,150	650 x 600 x 2,150	650 x 600 x 2,150
Boost capacity, electric / gas (L/min)*	80 / 24	80 / 24	140 / 24	140 / 24	140 / 24
Booster element rating 220/250V (kW)*	2.4	2.4	2.4	2.4	2.4
Storage tank material	Mild steel	Mild steel	Mild steel	Mild steel	Stainless steel
Storage tank insulation	EPU**	EPU**	EPU**	EPU**	EPU**
Solar energy transfer medium	Water	Glycol solution	Water	Glycol solution	Water

Conergy AS Tanks						
	AS 250 litre (open circuit)	AS 250 litre (closed circuit)	AS 315 litre (open circuit)	AS 315 litre (closed circuit)	AS 400 litre (open circuit)	AS 400 litre (closed circuit)
Storage capacity (L)	259	259	334	334	425	425
Tank weight, empty / full (kg)	90 / 349	90 / 349	105 / 439	105 / 439	116 / 541	116 / 541
Tank dimensions (w x h x l /mm)	617 x 1,444 x 617	617 x 1,444 x 617	617 x 1,754 x 617	617 x 1,754 x 617	705 x 1,703 x 705	705 x 1,703 x 705
Boost capacity, electric / gas (L/min)*	161 / 24	75 / 24	187.5 / 24	75 / 24	253.5 / 24	90 / 24
Booster element rating 220/250V (kW)*	2.4	2.4	2.4	2.4	2.4	2.4
Storage tank material	Mild steel	Mild steel	Mild steel	Mild steel	Mild steel	Mild steel
Storage tank insulation	EPU**	EPU**	EPU**	EPU**	EPU**	EPU**
Solar energy transfer medium	Water	Glycol solution	Water	Glycol solution	Water	Glycol solution

\* Alternative ratings available upon request

\*\* Expanded polyurethane (CFC free)

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Subject to technical modifications without notice

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